

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [2874] AD811 SPECS/info
Message-ID: <199610251938.NAA23380@zia.aoc.nrao.edu>

>From the ANALOG DEVICES REFERENCE MANUAL
AD811

=====

The AD811 is a wideband current feedback operational amplifier optimized for broadcast quality video systems. Gain is flat ($\pm 0.1\text{dB}$) from DC to 35MHz; 3dB gain to 100MHz; unity gain bandwidth 140 MHz. It is intended for $\pm 5\text{v}$ or $\pm 15\text{v}$ systems.

A few of the important specs:

Voltage range (V_{cc})	± 4.5 to $\pm 18\text{v}$
Input bias current	2uA
Output voltage swing	$\pm 2.9\text{v}$ into 75 ohm load ($@V_{cc} \pm 5\text{v}$)
Output current	100mA
Output resistance	9 ohms
Input resistance	14 ohms (-IN) 1.5M ohms (+IN)
Input capacitance	7.5pF (+IN)

Calling a few local suppliers, seems single quantity price is in the \$8-10 range. There is no ECG/NTE equivalent as of yet.

REGARDING THE AD811 1-WATT TRANSMITTER

Charles Kitchen's (N1TEV) circuit in the Oct. 10, 1996 EDN is an interesting application of using a wide bandwidth op amp as a crystal oscillator, and that is the purpose of EDN's "Ideas for Design." Clever circuits, not necessarily economical! All the circuit does is make the crystal oscillate to whomp out a sinewave. Well, there are gobs of circuits that will do that with a single FET or 2N3904 type transistor for a buck or two. I do not recommend the expense of the AD811 1W XMTR; it's just not buying you anything you can't do with a couple of junk box transistors. However, if you have an AD811 (sample) or other wideband op amp laying around -- go for it.

NEW WIDEBAND OP AMPS.

In the past several years, op amps have been pushed into some remarkable new territory ... driven mostly by the personal communications/cell phone market. There are now several op amps on the market that have unity gain bandwidths to 1GHz, full rail-to-rail output and powered from a single 3v supply. I have built a prototype 9MHz IF amplifier using a Linear

Technology and a ComLinear device. Other companies, such as NEC, MaCom, etc. now have RF amplifiers and mixers for the single supply 3v market >1GHz. And of course MiniCircuits new ERA series amplifiers.

This is the area worthy of experimentation for the QRPer. These will be the basis of the new QRP rigs several years down the line. Of course, we must learn how to cope with the dominance of surface mounted components. It has been my thought to prototype a QRP rig using these new 3V single supply devices, using the wideband op amps for the IF amplifier stage and product detector. The IF stage(s) could have feedback networks forming an active IF filter in the MHz range, just like you do in an audio CW filter. Furthermore, you could then power the receiver and VFO from say 3 AA batteries (4.5v) for weeks, making it independent and separate from the noisy 12v transmitter supply. There could be some distinct advantages to this approach.

So the point on the 1W OP AMP XMTR, is there are new components hitting the street nearly everyday and a new technology is emerging worthy of some QRP experimentation. If you have the means and desire to piddle around with these new wideband op amps or the 3V devices ... go for it. Sooner or later, somebody will be doing it. It could just as well be one of us!

QRP ... there's more to life than cell phones!

GL, Paul NA5N

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: d.nordquest@juno.com
Subject: [2836] Antenna Modelling
Message-ID: <19961025.083902.4783.2.d.nordquest@juno.com>

Peter Richeson has just posted the NEC-2 Manual for Windows at his Web site:
<http://www.traveller.com/~richesop>. It's in Microsoft Word for Windows format and is about 700K long.

Dave KE9ED

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Speedy <jorgenj@uddeholm.se>
Subject: [2839] Anyone have Scattering parameters for TP2180
Message-ID: <96oct25.151907gmt+0100.36865@wall.uddeholm.se>

does anyone out there have Scattering parameters for
the transistor TP2180

pse send me these if you have them

mailto:jorgenj@uddeholm.se

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [2868] Beacons
Message-ID: <199610251900.PAA08054@mh004.infi.net>

Excuse me for asking, but what is so darn much fun about a beacon? Isn't
that sort of like QRMing a frequency?? Am I missing something here??

CUL,

Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: David.Reid@asml.nl (David Reid)
Subject: [2850] Beacons: last call before ordering info on Monday(28/oct/96)
(longish)
Message-ID: <199610251446.QAA15389@wspub002.asml.nl>

OK guys,

The list for my little beacons is growing daily....

I'll take the last messages for this order on Monday 28th of October 1996.

I have replied to all who have sent requests - so if you sent one and didn't get
a reply - then I didn't get your name on the list.

HTML file from my WWW page is atached:

for full info (for anyone else who wants to order)

US price is 10 USD+ 2.00 postage/packing

UK price is 8 UKP + 2.00 post / packing

other countries by arrangement - all currencies accepted.

(sorry no credit card facilities - costs too much)

New web pages will be uploaded this weekend

<http://ourworld.compuserve.com/homepages/drcp/homepage.htm>

Dave Reid

PA/G0BZF

Proprietor: D.R.Computer Products

Leenderweg 46

5591 JE Heeze

The Netherlands

----- cut here for HTML file on the beacon -----

```
<html>
```

```
<!-- The following HTML tags are the header and title tags. These tags allows you  
to specify a title for this page. -->
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```
<head><title>beacon</title></head>
```

```
<!-- The following HTML tag is the body tag. This defines the body portion of  
this page or document. -->
```

```
<body bgcolor="#000040" text="#ffffff" link="#80ff00" vlink="#ff0000 vlink=">
```

```
<!-- The following is an HTML horizontal rule tag (or line). -->
```

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<hr align=center width=90% size=10>
```

```
<!-- The following is an HTML headline tag. Values for this tag range from H1  
(largest) to H6 (smallest). -->
```

```
<center><h1>D.R.Computer Products</h1></center>
```

```
<center><h2>NEW PRODUCT (20/10/96)</h2></center>
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<!-- The following HTML is just plain text. -->
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<p><center><pre>
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|</pre></center></p>
```

<center><h2>The Micro-Beacon</h2></center>

<hr align=center width=90% size=3>

<p><pre>This is one of our NEW PRODUCTS

(it is so new that there is no picture ready yet!)

The Micro-Beacor is aimed at those of you who want to activate a beacon on the air. This little project is based on our other kits in the Micro-Kit range - it sends a continuous message followed by a 10 second key-down then repeats the message ad infinitum. (or until the battery runs out which will be a very long time as it only uses 2mA to drive the keying transistor.

There are 2 versions of the Micro-Beacon:</pre></p>

<h3> HF version</h3>

<p><pre>This version sends your message followed by a 10 seconds key-down then repeats. Your message can be up to 250 characters long and can include all the special characters such as AR or BT.

</pre></p>

<h3> VHF version</h3>

<p><pre>This version sends your message followed by a 10 second key-down, then it sends your message at Meteor-Scatter speeds (800 LPM) Then the key-down again and repeats the loop.</pre></p>

<hr width=60% size=3>

<p><pre>Both versions support messages of up to 250 characters, choice of normal sending speed (from 5 WPM to 50 WPM) (Default is 10 WPM) They can be bought in Kit version with all PCB mounted components... or as a programmed chip - which you can build into your own circuit.

Both versions come complete with instructions and full circuit diagrams

The estimated price for the chip only version will

be 8 UK Pounds (Sterling) and the kit prices will be under 15 UK Pounds.

The PCB in the kit is the same one used for our other Micro-Kits - one square inch (25.4 mm sq)
See the Micro-Keyer for a photo of the size.</pre></p>

```
<!-- The following HTML tag is the internal link tag.  This is a hot link to
another page in your project. -->
<br><center><UL><LI><a href="keyer.htm">More on the Micro-Keyer</a></UL></center>

<br><center><UL><LI><a href="dfkeyer.htm">More on the Micro-DFKeyer</a></UL></
center>

<br><center><UL><LI><a href="tutor.htm">More on the Micro-Tutor</a></UL></center>

<br><center><UL><LI><a href="ordering.htm">Ordering Information</a></UL></center>

<hr align=center width=90% size=3>

<br><UL><LI><a href="homepage.htm">Back to HomePage</a></UL>

<hr align=center width=90% size=3>

</body>
</html>
----- end of HTML file -----
```

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: John Dorson K2JHU Real Estate Consultant <jdorson@bbs.mpcs.com>
Subject: [2828] capacitor value ratings
Message-ID: <199610251145.HAA14941@bbs.mpcs.com>

anyone want to know the story on capacitor value marking should look at paul harden's 'data book for homebrewers and qrp. the best explanation i've seem to date.

as an example, a capacitor marked 22 4 J =220000pf or .22uf @ 5% tolerance
103 = .01uf
203 = .02uf

and if you don't have a copy i suggest you get one asap. it is full of great information for anyone who is building...

John Dorson Real Estate Consultant in Brevard County Florida
E-Mail To: jdorson@bbs.mpcs.com

| Trying for WAS - AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|
| and worked these: MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|
WI

K2JHU only QRP... CQC #351, GQRP # 9092, QRP-L #672

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: William.Redfearn.cmwd01@nt.com
Subject: [2834] CQ Richardson, TX (Dallas)
Message-ID: <"8623 Fri Oct 25 07:16:01 1996"@nt.com>

I will be in Richardson, TX on business Monday - Wednesday
(28 - 30 Oct).
Are there any interesting HF QRP things to do in the area?

73 - Dave.

=====
Dave Redfearn, Sr RF Systems Engineer NORTEL RTP, NC.
ph.(919) 992-3925 email: william.redfearn.cmwd01@nt.com
qrl? de N4ELM/qrp

All opinions are my own, no one else wants them.

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [2865] CQWW - Thanks!
Message-ID: <9609258462.AA846275229@smtpgw.ccgate.dl.nec.com>

Hi All:

Many thanks to all who responded to my zone question
for CQ WW contest. Looks like TX is in Zone 4 for US.

I'll be trying my luck with the MFJ-9420 rig and the
R5 vertical. Wish me luck. I will probably get clobbered
by the big guys, but I'm doing this as a learning
experience, rather than a serious contest entry.

NEWS FLASH: Those waiting for Vanity Calls - as of 10/25 10:30 am, word is that day one apps. will be issued "any day now". Wish I knew what this meant - a day, or a week? Who knows? Only the FCC for sure!

Happy gunning in CQ WW and SS next week.

73 de Dave AC5GY (any day now!)

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [2889] D. Wee Q&A thread
Message-ID: <M1117733.002.uqmg1.1.961025220351Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

AE4IC de N6WG

Yes, Bob. I've enjoyed being a fly on this wall. I've been cutting out, saving and printing each exchange to add to my reading collection.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Jim W7LS <w7ls@brigadoon.com>
Subject: [2898] Emergeceiver on 80??VF0??
Message-ID: <199610252358.QAA05512@olympic.brigadoon.com>

I know, I know..... Same old 80 meter thing again.....

Has anyone used the Emergeceiver on 80? What kind of Tom foolery is required to make the changes? 73 de Jim, W7LS

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [2852] FOX Standing Week 4
Message-ID: <199610251602.QAA11792@chuck.dallas.sgi.com>

Foxhunt Current Standings Week #4 October 26, 1996

End of Inning #1 CA-4 TX-2 October 20, 1996

Beginning of Inning #2 CA-5 TX-3 October 26, 1996

Fox Scores

CALL	CONTACTS	STATE
AB50U	37	NM
AE9K	23	WI
K2NF	59	FL
W03B	29	MD
NQ7K	37	AZ
N9DD	40	IN
KF2PH	12	NY
WA5VQK	50	TX

Novice and Tech+ Scores

KB0ROL	12	CO
WD4MSM	5	IN
KB9LGJ	11	AZ
WA7SSA	7	ID

Totals 311

Note: X.5 means X regular foxes and .5 means one Novice(5 pts) so that score is X+5. Only one Novice per non-Novice stn. So when you see 3.5 that means 3 regular and 1 novice for total of 4 contacts, but 8 points total. Only one Novice allowed for the season for stations other than Novice/T+. More details when Novice/Tech schedule finalized.

Hunters Scores

Leaders: K1MG(6.5) KK5R0(6.5) KK6MC(6.5) N6ULU(6.5)

W0CH/m(3.5) AA0XI(5.5) W00Q(4) WB0CLD(2) AB0CD(3) KI0G(1.5) AA0XZ
NQ0I WA0FGV NI0A K0EVZ WA0RPI(2) KD0SU KB0VCC AA7OA
N0TFI
K1MG(5.5) AK1P(3) WA1QVM(3.5) W1HUE(3.5) N1RXT KA1AXY N1QQV KC1GS
AA2WJ(3) AA2PF(4) N2G0(2) WZ2T N2VPK(3.5) K2VNM(2) N2YRJ N2TNN K2NF
K3ETS N3SLR N3KFL W3PNL KA3WMJ W03B
AE4IC(4.5) WB4ZKA KE4YH(5) W4STX KS4L KE4KDT(1.5) AD4ZE(2) WJ4P
N5ET(6) AB50U(1.5) KC5RAS(2) KK5R0(5.5) W5TFB(5) AB5UA(4.5) K5UP(4) WA5VQK(5)
K5ZTY(2) KK5MC/5 WA5WHN AC5II(2) N5JKY K5F0(2) WB5QMP(2) WB5QYT(4)
W5VBO(1) KK5GJ N5OCD W5HNS WA5CVM AC5CI KA5DVS NA5N
N6WG(5.5) KQ6AG(4) W6BAB(5.5) AB6DG(3) KI6DS(3) WA6NAE(4.5) W6ABX

K06KA(2.5) KI6SN KD6ZMJ(1.5) WA6MOK(0.5) K6VNX(3) N6XI
WA6HHQ(4) AA6R(2.5) WA6OWR W6EMT N6GA
KK7BD(5) AB7ST(3.5) KC7NEV(5.5) NQ7K(3) NQ7X(7) KU7Y(5.5)
KI7MN(3) AA7QY(2) AA7WT(3.5) WW7Y N7MFB WB7DUO KG7PV W7JDZ(1.5)
AB7HI(2) KJ7NS AB7OA W7SNV AB7ST AA7WT N7CQR AB7MY
W8DN(5.5) WA8CDU(4.5) WB8ZJL
AE9K(3) W9UQB N9DD(4.5) KB9IUA(4) K9DZE(3) NN9K(4) W9ZSJ NY9B

VE7CQK(2) VE3JC(2) VE3SP(4) VE7SL(2)
: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QS0s=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Laura" <sputnik@imt.net>
Subject: [2872] Fw: Female hams
Message-ID: <199610251910.NAA21426@cu.comp-unltd.com>

The only short-sighted, negative response to the discussion. This should
answer those of us who wondered if it really exists at all.

73 de KJ7UN

Laura

sputnik@imt.net
QRP-L # 790

> From: Ed Tanton N4XY <n4xy@avana.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Re: Female hams
> Date: Friday, October 25, 1996 9:26
>
> Touchy aren't we. Sounds like a recent divorce somewhere to me! Must
> have gotten custody of all the QRP rigs AND the key(s). Sorry about
> that.
> --
> 72/73
>
> Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933
> Voice/MBX/FAX
> 189 Pioneer Trail, Marietta, GA 30068-3466
>
> QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779
> NCDXF SEDXC
> Life Member: ARRL AMSAT IDRA INDEXA QCWA URL:
> Coming Soon
>

> "Think you can, think you can't: either way you're right!" Henry Ford
>
>

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bob Edwards <rbe@atlanta.com>
Subject: [2903] FYBO FD
Message-ID: <3271A63D.34D@atlanta.com>

This is a multi-part message in MIME format.

-----62EB3A54832
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

VE3JC John wrote:

> I'll probably be cross-country skiing in to a nearby
> provincial park that has some nice tall pines (I wonder how the rubber
> on my antenna raising slingshot will hold up at sub-zero temperatures

Not well.

I use a golf ball and short spin-cast rod to launch ant halyards.
Works well for me, no rubber to freeze up, only the fishing line.
Could do double duty as an ice fishing pole, but don't think ice
fishing, QRP, and cross-country skiing go together very well.

I'm one of the few people in Atlanta that has cross-country
skies stored away. We really enjoyed it when living in the mid-west.

CUL, 73/72 Bob

-----62EB3A54832
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Disposition: inline; filename="FOOTER.TXT"

|-----|
| Bob, AE4CA, WAS-5W, nr Atlanta, EM73wt |...."QRP", more from less....
|-----|
ARCI, MIQRP, CQC, NorCAL, QRP-L, ARS, ARRL
:EMPS QS0s=25 STATES=18/2 DX=?
MO,MS,GA,AR,MI,IL,KY,DC,PA,LA,TX,NY,TN,KS,MN,OH,NC,FL

-----62EB3A54832--

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: lve1@inel.gov (Larry V East)
Subject: [2864] Great Ant WX!
Message-ID: <2.2.16.19961025180916.322707c4@eloi>

Should be a great weekend here in SE Idaho for antenna projects -- wind,
rain, snow and maybe a little sleet and hail as an added bonus! :-)

Have a good one -- Larry W1HUE/7

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Jorgen <jorgenj@uddeholm.se>
Subject: [2826] HAMCALC Were to find it
Message-ID: <96Oct25.131102gmt+0100.36865@wall.uddeholm.se>

Where can i find the program HAMCALC for us radioamateurs

and is the program free or can i get it from any FTP on InterNet ??

Pse Email me an answer <mailto:jorgenj@uddeholm.se>

best regards and 73 de SM4WDQ J rgen

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: johnhill@freenet.edmonton.ab.ca
Subject: [2838] Help...73 Mag article copy
Message-ID: <Pine.A41.3.95.961025064852.44738A-1000000@freenet.edmonton.ab.ca>

I would like to build the 30 or 40 meter CW QRP transceiver from 73 mag,
June '89. I didn't copy the whole article, I'm missing pages 49 and so
on. Would someone be able to help...thanks.

CUL...John...VE6CU...73...

email: johnhill@freenet.edmonton.ab.ca

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2829] Inv Vee vs. dipole
Message-ID: <Pine.SOL.3.94.961025073101.27623C-100000@utkux4.utcc.utk.edu>

Someone posted an inquiry regarding a dipole vs. and inverted Vee that contained some "received wisdom" about Vees--it caught my fancy and I checked it out on the modeling machine. As with most received wisdom, it was about half right and half wrong.

I compared a typical ham backyard 40 meter dipole at 35' up with an inverted vee that was 35' up at the center and 12' up at the ends (to achieve an approximate 45 degree angle). Both of these are typical installations, since there usually is a maximum height of installation, whether one uses the single support needed by the Vee or the double support needed by the dipole. So the comparison differences hold good, even if the actual max height is different.

Notice how much of the Vee is below the dipole--virtually all of it. Lower ain't better in antenna reality. But, since the max height is the normal controlling reality for ham antennas, it must be our point of departure.

Result: Dipole max gain = 5.91 dBi at an angle of 60 degrees. At 20 degrees, the gain is 1.6 dBi, with a peanut-shaped pattern. Feedpoint Z = 84 ohms resonant.

Vee max gain = 4.53 dBi straight up. At 20 degrees, the gain is -1.1 dBi, with an oval shaped pattern. Feedpoint Z = 55 ohms resonant.

What about the vertically polarized component? In both antennas, it is off the ends of the antenna and is stronger in the Vee by about 4 dB. It is difficult to estimate whether this difference might be offset by an increase in noise pick-up, since the antenna is closer to the ground.

So the choice may come down to deciding if the added gain off the ends with vertical polarization is worth the loss of 2.7 dB in lower angle gain broadside to the antenna.

If you only have one tall support, the decision is made for you. If you have two and they are on the edges of the yard, the decision is also made for you.

Incidentally, the dipole legs worked out at 33.4' each side of feed, while the Vee legs were 33.9' each side of feed. Locally foliage and buildings

may vary your results.

Hope this information is useful.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [2904] Latest on vanity calls
Message-ID: <199610260340.UAA01689@primenet.com>

-----_846301274==_
Content-Type: text/plain; charset="us-ascii"

The attached was posted today on the ARRL Electronic Newsletter. Forwarded for info.

72/73 de Roger AA7QY

-----_846301274==_
Content-Type: application/mac-binhex40; name="VANITY.HTM"
Content-Disposition: attachment; filename="VANITY.HTM"

(This file must be converted with BinHex 4.0)

:#PC"6NP8@5j)9%d!9%9B9(4dH(3!!!!!!li!!!!!"X&8D'8J39*56#"-CA4dCA)
J4@aPBh4bEfjTBb"9F'4KG'8X)%pMG'pLCA)J-M8X)\$%j16B0\$8GKG'8J-L"@B@j
TG(NJ3f&XE#"6D@GZ)%GbB@jdFcSJ3@jj)%4KH5"1EhFK\$3d0\$3e8D'8J4N0\$)'P
c)'K[E'4TEQFJG'mJDA4c)(0MD'9NG@aP)(4SBA3JCQPbFh3YC'&j)(CKEQPdH5"
MB@aX\$3ecD@GZ)%GKG'8J-L"KF("XD@0KG'P[ER-JBfpeE'3JBQ8JF(*[Bf9cFf9
N)' +c)'9KFQaj)'&c)(4[C'&j,Jd03A-JEfBJ6f0dEf*PFL!a-5`JG'KP)%C\$3b"
SB@3JFQ9MC@PfC@3JE@pbC5"dD'&Z)\$Bd-\$!JBA"'E'PMBA4TEfjc\$3eTEL"bCA0
'EfjcC5"dEb"(BA4P)\$)X)(GSD@0S)'p'C@jPC#"UGA0d)'pfCA)JB5"YEfjdD#"
KCfmZ)&"PFR0[EQjPE!d0D@iJG'KP)%C\$3bGc)%GPG(4jFf*eFQFX)&"PEQjch@a
fB@jTB5`JEfCQD@0P)'KKGQ8JBQ9PEL"PER4PFQPZC`d0BA"'E'PMBA4TEfiJD@j
QEh*YBA4TEfiJB@jN)'aTFh4c)'pQ)(*PFA9PFh4PC#"MB@aX)(0TCfjc)(0TEQ0
P\$3edD'9Z,L"6E'PRD(4XH5"YEh*P)(4SB@iJ0\$8`-#"KF("XD@0KG'P[ER-JGf9
bC5"QD@aPC#"[EL"[F'9ZD@jR\$3eNBANX)'&ZC#"dD'8J4N0\$)'KKFb"cb@PN)'P
d)(GTE'`JBfpZFfPNCA)JB@aX)'4KH5e[EQ8JBA"'E'PMBA4TEfjc\$3eKfb"K)'G
bEh9`)'&ZC#"RFQ&ZG#"XD@0PER0PFb"TEL"bB@jNEfdJEh*NCA)Z\$3d0\$8PQ)(4
SC5"'3d-JDA-JG@jKBQaP)(4['GbB@jd)'%JFQ9aG@9cG'9N)'0KE'`JFfPREL`
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JBA" `E' PMB@jd) ' \*j) ' eKD@ `Z) %& `F' aTBf&ZG(-JE@&j\$3ebC@& `F' aj, # "LGA3
JD' &YFb" hD' pcC5" KF("XD@0KG' P[ER-JBA*P)' 4TFfeTFh0PC# "YGA0d) (*PFA9
PFh30\$@%JFQ9QG@jN)' pQ) (4SC5!N-c!JF(*[Bf9cFfPZCb"QC@8JD@iJGh*TG' P
ZCb"KEQ3JG@jNCA)JFf9`BA*KG'80\$@0[GQ9b,Jd0Dc-!!!!:

-----_846301274==_
Content-Type: text/plain; charset="us-ascii"

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

-----_846301274==_--

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2906] More Questions! matching
Message-ID: <32718891.pandora@pandora.lugs.org.sg>

Hi All,

I'm back with more questions. I've pretty much worked through the driver stage and am satisfied that I've squeezed as much reasonable power out of it. I was not able to achieve my objective of 500mW by far. In fact, I am only in the region of 40mW max out of this stage, and even then the transistor is getting real hot. This is partly due to low input power I suppose, about 1 or 2 mW, maybe less. I have a 2N3866 in place with a heatsink now. It seems to be working quite well. I also have a ferrite bead on the collector leg of the transistor, just in case.

Now, to the questions:-

1. Looking at the specs of most of these power transistors, I find that most of them have slightly capacitative inputs. The MRF475 has about 11pF parallel input capacitance, for example. In view of this, how important is it to cancel this off with a series/parallel inductor? Will this make much difference, especially in a Class C circuit?
2. In a the class C amp I am using, I am observing that the input signal gets really distorted during transmission. Without the transmitting amplifier, and with a equivalent resistive load in place, I see a nice sine wave. With the transistor load in place, the waveform becomes really jagged. This looks exactly like the waveform diagram (A) on page 262 of QRP Classics (also in p.34 Oct 78, QST). The said article suggests a suitable capacitor from collector to ground. Has anyone else experienced this and have some comments about this phenomena?

3. Often when speaking of output power, I encounter this equation:-

$$Z_{out} = (V_{cc} * V_{cc}) / (2 * P_{out})$$

I had understood that this meant that the output impedance was inherently tied to the desired output power. I had also assume previously that as my output power is decreased, I would have to increase the output impedance. However, now that I think about this more, I am more inclined to think that this equation in fact does not define the relationship between the output impedance and output power, but the output impedance and MAXIMUM output power. I don't know if I am correct here. If I am correct, it also means that I can actually just reduce the transistor drive so that the voltage swing is less than Vcc and get lower power output and still maintain the same output impedance within reasonable limits.

If I am correct in my understanding, then I can actually design for a higher maximum power output, say 5W, but choose to operate at 2.5W without messing out the output impedance. Is this correct?

4. This one is just a note, not a question. I have observed that the output mismatches is reflected back to the input of an amplifier circuit. I should have known this from the equations but it was the practical exercise that made this obvious to me. This suggests that output SWR mismatch at the finals can work its way back to the exciter stages and corrupt your oscillator stability. This also means that stage tuning should be done with the subsequent stages disconnected first, ideally. I never realized the real implications of this since I normally just assumed it would all be okay.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg           |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bob Patten <n4bp@shadow.net>
Subject: [2820] N4BP/VP9 QRP ARCI Fall QSO Party
Message-ID: <Pine.SOL.3.91.961025035022.17472A-100000@hyper>

1996 QRP ARCI CONTEST

Sunday with the return flight and then had to work overnight Sunday, I decided to forego forty meters and get some sleep. An even wiser choice would have been to enter single band on twenty meters instead of high band.

Some notes on the antenna. Almost thirty years ago, I was given a scrap Hy-Gain beam (a DB- something or other) as a bonus when I bought a Heathkit Apache linear amp from a co-worker. I salvaged the traps and some pieces of aluminum to construct a four band vertical. For forty meters, I use a Hustler mobile resonator. This ugly antenna has been on many Field Days in the Florida Keys, to Cape Cod, San Francisco, the Bahamas, Cayman Islands, and now to Bermuda. Prior to this trip, I used a hacksaw to reduce the antenna to pieces no longer than 18 inches so that I could fit it in a suitcase. With an engraving tool, I numbered the sections so that I could easily reassemble it. I also brought eight pre-cut radials, two for each of the four bands. Near the end of the party, VE3VA commented to me that my signal was as strong as from home. This didn't surprise me as I've seen this phenomenon before. When using this vertical from the Keys, it is also set up by the water at ground level and outperforms my 45 foot high tri-band beam at home.

My entire station fit into one carry-on suitcase, but was incredibly heavy. This proved to be a major problem in navigating the Atlanta airport for connecting flights going to and returning from Bermuda. But all the equipment survived, even after the puff of smoke from the TS-430S on Friday. The Radio Society of Bermuda treated me royally! Glenn, VP9ID made most of the arrangements including the loan of one of his scooters to tour the island. Mike, VP9KK and his twin brother Manny took me to and from the banquet and general meeting, and Larry, VP9MZ ran me to the airport for the return trip. All in all, a memorable trip thanks to the Radio Society, the Bermuda Department of Tourism, and the people of Bermuda. I hope to return again at a future date.

Bob Patten, N4BP

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Gary M. Diana Sr." <gm dsr@shell10.vivanet.com>
Subject: [2860] New Product Announcement: the TiCK
Message-ID: <199610251723.NAA02590@shell10.vivanet.com>

*** This announcement is exclusive to the QRP-L Internet List! ***

Embedded Research announces it's newest product:

The Tiny CMOS Keyer (TiCK-1)

The TiCK is based on one of the newest chips from Microchip: the PIC 12C508. This 8 pin, RISC-based microcontroller has the same footprint as an NE602, in its DIP package.

We are setting the price of the TiCK chip at \$5 ppd (within CONUS). For this price, you get a mode B iambic keyer with speed adjust, tune, and paddle selection features.

The software for the TiCK is complete and we are now waiting for the parts to arrive. We expect to begin shipping the TiCK in early December. We are currently taking orders for the TiCK.

We have an image of the TiCK which we expect to have on our webpage (<http://www.vivanet.com/~gmddsr>) within the next few days, along with a more detailed spec sheet.

TiCK-1 Features:

0. Supports iambic mode B, with 3:1 weighting.
1. Small footprint for easy integration into radio or radio design
2. Requires only 8 components to become operational.
This includes (3) resistors, (1) 6 pin resistor pack, (2) .01 caps, (1) 2N2222 transistor, and (1) N.O. switch.
3. Low current draw in operation, and only draws microamps in SLEEP mode.
Requires 3-5v DC.
4. Simple user interface: 1 push button and user-supplied key paddles.
5. Speed adjust is accomplished via pushbutton and paddles, therefore no bulky/costly potentiometer required.
6. Tune function
The TiCK has a built-in tune function.
7. User selectable paddles: the TiCK provides a command for designation of the dit/dah paddles.
8. Can be used in both embedded and stand-alone keyer applications.

Feedback:

We would like to know how many people would be interested in the SOIC package for the TiCK. This is the surface mount version. More difficult to solder, but much smaller. If there is sufficient interest, we may pursue this.

For more information on ordering the TiCK-1, email Embedded Research at:

gmdsr@vivanet.com

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [2887] Newest ARRL Section NNY
Message-ID: <1.5.4.16.19961025165007.2f0f9e20@206.158.2.1>

Thanks much to all!

72/3 de Allen, K9DZE
ajones@adsnet.com

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: lve1@inel.gov (Larry V East)
Subject: [2853] Output Power: Scope vs. Meter
Message-ID: <2.2.16.19961025160508.272f07f2@eloi>

Is the 50 Ohm termination located right at the scope input? If not, you could be getting an erroneous reading. I think Mike "Ski" wrote this up in QQ an issue or two ago. (Mike: maybe you should re-post the info.)

72, Larry W1HUE/7

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Scott Bauer <ke3nv@erols.com>
Subject: [2907] please read now
Message-ID: <199610260401.AAA04310@smtp2.erols.com>

If there are any short wave listeners awake now (0400z) please tune to 10.080 usb. There is a very weak broadcast station on. Can

anyone ID it ? Sounds Spanish, but dont know. Never heard a station here before....Scott

.....
Fists 1502, ARCI 8804, G-QRP 8773, Nor-Cal 1094, NE 348, CQC 352

Scott Bauer ke3nv@erols.com

.....

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [2878] Pot Shots Off List PSE!
Message-ID: <1.5.4.16.19961025151038.2f0f31f6@206.158.2.1>

The subject sez it all! Or, as has been said on this list before:

Praise in public and criticize in private.

ObQRP - Can someone tell me what section was recently added by ARRL? I plan to use N6TR ver. 4.05 during the SS. It was released back in '93 and I know the League has added a section since then.

Thanks . . .

72/3 de Allen, K9DZE
ajones@adsnet.com

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: JACKS118@aol.com
Subject: [2873] Question: What does FOX mean?!?
Message-ID: <961025153416_1645480633@emout05.mail.aol.com>

I have a question. What does FOX mean. I hear it a lot. Please explain.

JACKS118@AOL.COM

KB9LEB
JACKS118@AOL.COM
<http://members.aol.com/jacks118/kb9leb.html>

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Laura" <sputnik@imt.net>
Subject: [2876] Response to Female Ham Subject
Message-ID: <199610251941.NAA24482@cu.comp-unltd.com>

By and large the overwhelming response to the originally posted request by a female ham for some support by us in her experience was positive. There are actually only two responses to the list that I found offensive. One response in particular, just wanted the subject to go away. No subject needs to be beat to death by over analysis, but I don't feel that has happened here. Subscribers to this list have shown their support and understanding and I personally am grateful for that. I hope the woman who wrote the original letter was equally impressed by the amount of intelligent, supportive male hams who gave their words of encouragement.

73 de KJ7UN
Laura
sputnik@imt.net
QRP-L # 790

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>
Subject: [2856] SLINGSHOT/SINKER (Tree Fishin')
Message-ID: <19961025170810.AAA62@LOCALNAME>

Slingshot & sinker technique variations interest me as a practitioner with many years of experience. PRIME OBJECTIVE: MAXIMUM GAIN WITH MINIMUM PAIN. I've settled on "separates" for several reasons. Gear includes a slingshot, bottom half of a surf-casting rod w/spinning reel (loaded w/18 lb. mono.) and 3 and 4 oz. tear-drop sinkers painted day-glo. The larger sinkers get thru all kinds of trees, and have lower velocity, thus less line breakage. I strongly recommend planning ahead, lots of time, and an ASSISTANT, esp. if several supports are involved. (my 1350' loop has 7 supports)

A 5-gallon dry-wall bucket carries tools/materials and serves as a launch holder for the surf rod. An emptied wire spool on dowel, w/short crank handle, is loaded

with >400' of strong twine used as an "intermediate puller" for the support line.

The dowel "axel" is long enuff to fit thru two holes melted thru the sides, (top) of the bucket, providing a holder while pulling intermediate line out with the mono-fil.

I'm blessed with lots of tall trees and have found that by passing supports over

the very top and down close to the trunk gives best reliability. The natural spring action of the small (within reason, of course) top branches provides needed tension relief. By floating all but one support (for loops) in plastic clothesline pulleys, tension is evenly distributed around the system. The one fixed support is to keep the feeder where it's wanted.

Counter-weights are NOT needed for horizontal loops, and in my experience have caused frequent problems. ONE is needed in the case of non-loop single wires. In that case, by all means use a PVC pipe as a protective sleeve for the weight to slide up and down in. That, of course should be at the far end of the wire.

3/8" poly "Trucker rope" has proven economical and very reliable for supports. I've patched wire and poly together to provide rugged tho inconspicuous lines. Home Depot sells black w/red tracer on a 600' spool for ~ \$75.00.

#14 THHN black stranded is my wire of choice. (\$20/500' @ Home Depot) Where splices are needed, I use insulated crimp type butt-splices. Soldering splices results in stress fractures at abrupt solder/non-solder points on the joint, esp. if it goes back and forth thru a pulley. Careful crimp splices are reliable and eliminate the need to solder out in the field.

There is a knack for shooting sinkers reliably. Very ugly thumb-knuckles can result from encounters with full-drawn 3 and 4 oz. sinkers. Pay attention to the balance of the sinker in the sling. Remember to open the bail on open face spinning reels!! Don't re-wind the mono-fil under high tension. That causes a fatal twist in the line that complicates subsequent "casts". To guide wire around

tree branches, etc., use the intermediate line, thrown over the wire. (w/sinker) Avoid "sawing" as it will part the line. Helpers greatly facilitate this process.

Adjust the shape of the loop by adj. the length of support lines. More is better.

That's all for now, folks. Gotta go put up the "Winter Loop" and "VEE". 73 =s=

Seabury "Seab" Lyon AA1MY
44 Codfish Hill Road
Bethel, CT, 06801, USA

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [2905] SST progress report: size/form factor changes; PCB in progress
Message-ID: <199610260341.UAA06051@mh1.well.com>

[For those who haven't heard of the SST, it's the "Simple Superhet Transceiver," the next NorCal club project. It has about 40% fewer parts than previous single-banders such as the NC40A or NE40-40, but will have crystal filter, AGC, and VFO coverage of about 20kHz or so on 40m, 80m and (later) other bands.]

The SST is shaping up a bit differently than I had thought. After tossing ideas around and thinking about things from the perspective of the typical SST builder (i.e., mostly new NorCal members, first-time builders, first-time QRPers), I decided to leave TFR (trail-friendly) modifications for later. Bill Jones, KD7S, and others have expressed an interest in making a bracket of some kind to fill that need. I had a TFR-ish package drawn up, but I decided it looked so much like an old Radio Shack SWR bridge that I just couldn't live with myself :)

So, the SST now looks almost exactly like a miniature version of the NorCal 40A. I tried many other form-factors, but this was (in my opinion) the best design aesthetically and easiest to fab inexpensively. That's important; we want to keep the cost low so NorCal members who have missed out on other "real rig" club projects will be able to afford it.

The SST box is 1.35"H x 3.2"W x 3.8"D. This is a little over one third the total volume of the '40A box (!), and the entire SST will fit *inside* the Sierra (perhaps as a backup rig :) ...

In addition to scaling the entire box down, I made three other major changes from the '40A concept:

- (1) the box is .050" aluminum rather than .060"
- (2) the front and rear panels have folded-in side panels with Pem nuts since there was no place for the SouthCo latches
- (3) there are holes for an optional KC1 already in place on the top cover, but if you don't want a KC1, just put the bottom cover on the top--same size as the top but no KC1 holes!

I simply ran out of time to try to design a new keyer for the SST, so the aforementioned "KC0" will have to wait. Note: with the KC1 mounted on the top, the rig still has a bit of a "TFR" feel to it. There's even a place between the KC1 controls and the front edge of the box to install a small

keyer paddle.

A prototype of this box is being fab'ed, and I should have it in hand by the next NorCal meeting. I'm laying out the PC board in spare moments and will have that in a couple of weeks.

73,
Wayne
N6KR

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Joe Gervais <vole@primenet.com>
Subject: [2882] SUMMARY: Soldering Stations/Pencils
Message-ID: <199610252122.0AA29240@primenet.com>

Howdy Folks,

Well about three weeks ago I promised a summary of responses from my query regarding soldering irons/stations. Better late than never. :-)

Thanks very much to all who gave me input. I ended up buying a used Ungar 9000 from a ham on the List, looks like it'll serve me well for a long time to come. And now that we had a big garage sale, I have space to set up my own mini workshop so please be ready for all kinds of newbie builder questions. :-)

General consensus was that Weller and Ungar both make quality irons, along with one vote each for Antex and GC brands. Best deals seem to be used stations, or discounted at hamfests. One of these should set you back US\$25-40, depending on condx, brand, etc.

Universal praise for temperature-controlled stations was given, vs. the standalone fixed-temp pencil irons. Seems a good station will last you for many years (with a new tip now and again). The Rat Shack and other generic pencil irons seems to have a track record of going belly-up (or severely degraded performance) after a year or two.

That's about it. Thanks again. Hope this was useful to some of you Lurkers out there (and all the rest of us too... :-)

Good irons and good antennas - the secrets of successful QRP building/operating.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [2857] Tree Fishin'
Message-ID: <Pine.SUN.3.91.961025110207.5648A-100000@kitsune.swcp.com>

Instead of the sling shot, sometimes I use just a hard ball with 1/8 inch nylon rope taped to it with duct tape. I give it big throw, or sometimes whip it around and turn it loose! If it gets hung up, you just give it a tug and the rope comes off the ball and both usually? come crashing down. Then you just retape and try again. Make sure you don't have an auto in the vicinity. Hard balls and auto hoods don't mix! My son showed me how that works when he threw the ball up into the air, he missed and the ball came right down on top of my hood on my new truck. Hurt pretty bad at the time because I only had made about my 3rd payment! Now all is forgiven because he ended up becoming a ham AB5DX, and my truck was stolen last month sothat's life in the big city!!! " Happy Rails to you!" Tom WB5QYT QRP-L 640

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: ghanson@uts.cc.utexas.edu (Gary R. Hanson)
Subject: [2896] Tx Fox Filter, Antennas and MXM Emergenceiver
Message-ID: <v01540b00ae96b5732323@[128.83.251.158]>

Hey gang,

Work and other commitments sure got in the way of hammin' the past two weeks, but what little time I had has been great fun.

First, those California boys sure designed one heck of a Tx Fox Filter. I live across town in Austin from Tim (maybe 10 miles) and I couldn't even hear him on ground wave. Nothing but S9+ SSB from down south. Sure thought I could snag a fox from close in, but gonna have to wait another week. Putting that filter on Tim's rig and keeping ALL the Texan's away from the Fox was diabolical, to say the least. Didn't see a single Tx call in Tim's report. AArgh!

Last week I saw Chuck's posting about his antenna and I had read about it earlier so wanted to put one up. Last week I got the 33 ft leg up right before dark, but lost sight of the long leg in the trees. Moonlight in Texas just wasn't strong enough. In spite of the antenna resting on top of the trees, I answered a CQ and got a response back from Illinois on my first shout...a 559. That antenna really does work. I plan to compare it with a full wave delta loop up at the same height...about 35 feet and see which one does better. I'll post some findings later on.

I also built the 30 meter version of the MXM Emergenceiver and switched to the 1.116 crystal as well. Got the same hot spot as Chuck, but he warned me about it and I saved a blister. I owe you one, Chuck! I haven't had time to make the mods, but plan to add the resistor and cap and see what happens. The receiver part of the rig works great. I've also built and used the Simple Rx/Tx combination and racked up more than a 100 contacts using the crystal controlled transmitter. The Emergenceiver also has the option of a VXO control circuit that will shift the transmitter about 5 Khz and I'm working on a way to bring the control knob out to the front of the cabinet, but need to get the transmitter cooled down first.

I'm off to Iowa next week so will miss the Foxhunt...again. But warn the furry little devil that I'll be back.

72,73,

Gary, KJ5VW

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: wa5whn@juno.com (Jay D Miller)
Subject: [2858] USA Geographical Maps Only/GPS/QRP/FYBO
Message-ID: <19961025.111929.4447.0.wa5whn@juno.com>

For those of You, who like to see a Map (USA only) of where You are (I have been wondering where I was for years.) & the Latitude. & Longitude, of that address, try the following URL;

<http://www.geocode.com/eagle.html-ssi>

Enter Your' address & select both (map & address data). Stay away from Post Office Boxes, street addresses work the best. My thanks to N5ZGT, Brian for pointing this site out to me.

A plug for a GPS receiver, in Your' QRP adventure hikes (Garmin GPS-38 is less than \$150.00 now):

If I hike in the Mountains, I don't leave home without 1 QRP HF radio and/or VHF radio & GPS receiver + spare batteries (Water, food, GORTEX clothing & toilet paper too). Ever try finding Your' way back to Your' vehicle (departure point) in a blizzard, and all that You can see (visibility less than 40 feet) is almost in total white out ? Amazing how ground features change, when that white cold stuff plants itself on the Earth. (Speaking from experience). Yes, in New Mexico, You can have some really New England style blizzards, especially above 9K feet asl. With FYBO-QRP AField coming up Feb. 22, '97, unless You are really experienced in snow (Hint: Arizona), stay home, so I can obtain most all of the multipliers, ah, er, oops, I was thinking of Your' Safety, in Arizona.

72...Jay, WA5WHN, Grid

Square: DM65qd

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [2888] Use of a soldering iron on DC power?
Message-ID: <Pine.3.89.9610251658.A19478-01000000@w3eax.umd.edu>

This came up a few weeks ago...

I have (somewhere) a 12 VDC iron I picked up at a fest for \$10 or so.

We were doing some rooftop antenna work and wondered, hmmm...could we run a 25 watt 120 VAC iron on a 120 VDC? We had enough batteries (gel cells) and I know that 120 VAC is actually 120 Vrms, so the same power could be delivered by 120 VDC. The only question was whether the reactance of the heating element material at 60 Hz was enough to act as a current limiter - that would suddenly not be present if DC were used.

We went and got a 100' extension cord. Any guesses?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: QLF%mimi@magic.itg.ti.com
Subject: [2844] VHF QRP
Message-ID: <9610251417.AA02530@itg.ti.com>

From: Brad Bradfield QLF

Subj: VHF QRP

Good morning y'all - -

>> G0DJA wrote:

>> Es seasons usually allow some DXing with lower power. Mind you the
>> "life is too short for QRP" brigade are very active on VHF, and any
>> newcomers usually get "told" that they MUST use QRO.....

> Zack wrote:

> If you want to get VUCC on 2 meters from New England, its hard
> to disagree. Even the big guns need a couple of years and a
> few good openings.... I'm not sure that QRP VUCC has been
> achieved by anyone on 2M.... anyone up to the challenge?

> But, the ARRL Grid Awards are certainly possible with QRP on 6
> meters, as well as the microwave bands.

> Zack Lau KH6CP/1 zlau@arrl.org

I agree entirely with G0DJA and KH6CP/1. A number of years ago when I was very active on VHF, I got VUCC (#198 or something like that) on six-meters with never more than 10 watts PEP. I also confirmed 29 or 30 states. Two-meters was another animal, and I had a 160 watt amplifier for that band. Sometime back, I suggested to Chuck that we try a Ten-meter propagation study one of these years. It's amazing how often ten will pop open during Es season. Could generate a lot of activity and fun.

One funny story about working six-meter Es; several times I heard W1AW's six-meter beacon booming into North Texas, but could never raise anybody "live" in Connecticut to save my soul. With W1AW's phone number unlisted, I couldn't even call to get them on the air.

72's es 73's,

Brad, WB0CGH

Brad Bradfield, PE Electrical Design Engineer
(H) 817-321-2960 Texas Instruments, Inc.

(W) 214-462-6230

Real men talk with their fingers!

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72

Collector of wireless and landline Morse keys and accessories.

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: JACKS118@aol.com

Subject: [2892] Web Sites

Message-ID: <961025184219_218096303@emout17.mail.aol.com>

If anyone has a web site that is on
the internet, please send me an E-Mail
and I will put it on my Ham Radio Web
Page. I would like to add it on.

TNX and 73 de jack KB9LEB

KB9LEB ==> Jack

<http://members.aol.com/jacks118/kb9leb.html>

jacks118@aol.com

Worked States ON 10m ==>22

Total Worked States ==> 22

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: Bensondj@aol.com

Subject: [2848] White Mountain errata

Message-ID: <961025110504_1582140803@emout10.mail.aol.com>

Hi gang-

For the early birds who've already got their White Mountain SSB kits
underway, I've got an list of errata available on request. I'm pleased to
report it's mercifully brief so far, and of those, only the transposed
microphone lead (reported on 10/20/96) is significant.

I'd revised the manual extensively prior to release of the new boards, to
include grouped build instructions. I'm happy to report that one of the
builders is now completing the last group without encountering any difficulty

in the checkout instructions. :-)

I'll be keeping a running log, and once you request a copy I'll continue to send e-mail updates as warranted. Each log entry will be annotated with a correction date, so that builders with the latest and greatest manuals will know they can skip past those items. To get on the list, simply drop me a line requesting the errata. Please continue to bring items to my attention, and I'll get 'em resolved speedily.

73, Dave Benson- NN1G

p.s.- worked Sable Isl. -first call- last night with the WM-20. (After 10,000+ QSOs for that operation, the pileups are down a bit.) :-)

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [2891] Whoops! Did I end the solder story too soon?
Message-ID: <Pine.3.89.9610251625.D19478-01000000@w3eax.umd.edu>

It was Sunday and we wanted to get the work done; the extension cord was plugged INTO THE STANDARD 120 VAC mains. I was basically wondering if anyone had tried running 120 VDC into a 120 VAC soldering iron, and if it was successful.

Guesses as to what would have happened?

P.S. We slightly melted the crummy dielectric in the RG-8 while soldering on the barrel connector of the PL259, but there was enough of a form left for it to work OK. I still want another crack at it though...but no desire to take the vertical down again...

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

> >This came up a few weeks ago...

> >

> >I have (somewhere) a 12 VDC iron I picked up at a fest for \$10 or so.

> >

> >We were doing some rooftop antenna work and wondered, hmmm...could we run
> >a 25 watt 120 VAC iron on a 120 VDC? We had enough batteries (gel cells)
> >and I know that 120 VAC is actually 120 Vrms, so the same power could be
> >delivered by 120 VDC. The only question was whether the reactance of
> >the heating element material at 60 Hz was enough to act as a current
> >limiter - that would suddenly not be present if DC were used.

> >

> >We went and got a 100' extension cord. Any guesses?

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: plquick@facstaff.wisc.edu (Paulette Quick, WB9VHF)
Subject: [2884] YL Hams
Message-ID: <v02110104ae96933cf32e@[144.92.104.140]>

Gang,

Laura KJ7UN, said:

>I hope the woman who
>wrote the original letter was equally impressed by the amount of
>intelligent, supportive male hams who gave their words of encouragement.

Laura, I hope I get to meet you next year at Dayton. I guess I am the YL you are referring to. Actually this all started when someone mentioned that they didn't know any female hams. It wasn't derogatory, just a statement. It gave me a chance to chime in and brag about the encouragement and acceptance I've found among the ham tribe in Madison, Wisconsin.

Let me say that my opinions and feelings about the people on this list and qrpers in general could be described as "impressed" raised to a much higher power (got that from my algebra class). Laura, you weren't around after I returned from my first Dayton trip when I gushed about the "qrp gods and goddesses" I was able to meet in person. That was not hyperbole then and is not now. There really is something unusually civilized and compassionate about qrp enthusiasts. Don't know what it is, but I've seen over and over again how qrp hams respect and care about the whole person.

I've been impressed by the supportive male hams in qrp since day one (That would be Jason Penn, N9RPT who allowed me to hog his QRPP copies during one Four Lakes Amateur Radio Club meeting.) Another list member, Paul Goemans, WA9PWP has also always been available to share his knowledge and humor.

All in all, it's truly another golden age of ham radio, and I'm glad you've joined us, Laura.

This gives me an excuse to tell another story. I said "ask me sometime about the Altoids tin at a prayer meeting." A family from my church had a prayer service at their home. We entered the den to see a low, round table, covered with ordinary items of daily life -- a book, an egg, a paperweight, candles. Sure enough, an Altoids tin shared space with the other objects that people selected and in turn, displayed with a story describing its personal and spiritual significance.

When I displayed my Altoids tin, I got to talk about all of you. I told them about Dayton and Four Days in May (c) and Vendor Night and laughter and thank yous and caring. My own form of radio evangelism.

No amps or anything else representing high mortal power could be seen on that table, which just goes to show you, God is on the side of us qrpers. ;)

So Laura, stick around....and visit everyone at Dayton. By this time next year, I bet you'll have your own grateful stories to tell.

88 es 72 to the list,
Paulette Quick, WB9VHF
Madison WI

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Luke Enriquez <ecsclfe@lux.latrobe.edu.au>
Subject: [2823] [2734] Who to believe, Pout?
Message-ID: <9610250637.AA15395@lux.latrobe.edu.au>

Howdy,

>So now, the scope says 4.8 watts and the meter says 3.8 watts. Question, who
>do I believe? Are my calculations correct? Did I miss out something, or
>added something which should not be there? Which would you believe, the
>scope or the meter?

Non linearities in your SWR bridge would probably account for this error. I would believe the scope rather than the SWR bridge. Remember, if you SWR has a +/- 1W error, at 3 watts that will be significant (in terms of error) but at 30 watts it would probably be difficult to detect.

Regards,
Luke

--

Luke Enriquez VK3DLE "I only cook with Non-violent
3rd Year Electronic Engineering fruit that pulps itself."
Latrobe University, Victoria, Australia.
ecsclfe@lux.latrobe.edu.au

--

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2885] RE: 2 Watt @ 12v Solar Panels \$20.
Message-ID: <Pine.SUN.3.94.961025113747.14486A-100000@access5.digex.net>

Jim, hold your \$\$\$. That's prestty expensive from my viewpoint.
2W is only about 200 ma, & I bought a 700-750 ma 12-14V
pannel for about \$40 a few years back. I'll try to locate the
info for you, but I remember getting it out of NUTS & VOLTS
Magazine. Yup, here it is:

Gateway Electronics, Inc	1-800-669-5810	Order: 5/20/93
8123 Page Blvd.		expected: 5/28
St. Louis, MO 63130		received: 6/02
Solar Panel	\$36.50 (12-14 @ 700-750ma)	
ship =	\$15.00	
total =	\$51.50	

Now, I did have to make a case for it, but it was still the best
buy back then (1993) and seems like it's still a good one, if they
still have 'em.

Normal disclaimer, just a satisfied customer. I've used it on every
field day since I got it.

72 & 73 de Phil KE3FL

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [2893] RE: 2 Watt @ 12v Solar Panels \$20.
Message-ID: <Pine.A32.3.95.961025154707.9075A-100000@homer14.u.washington.edu>

Thanks for the tip Phil...I called Gateway Electronics and they
continue to carry this solar panel. It's glass which explains
the expensive shipping cost. Dimensions are 1 foot by 3 feet.
Price is still \$36.50 each and Gateway has plenty on hand.

Stephen Lee, AB7HI
slee@u.washington.edu

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: 25-Oct-1996 0801 <randolph@asic.ENET.dec.com>
Subject: [2832] re: Amplifier questions
Message-ID: <9610251212.AA16491@us4rmc.pko.dec.com>

> The problem is that it will work for a while then suddenly the resistors
> to the final and second to final stages get really hot and the fuse blows.
> I suspect that the problem is that the second to last transistors work
> fine when cold but then seem to short out when they warm up.

Sounds like a classic oscillation problem. Probe around looking for a high frequency (way above audio, maybe RF) signal if you have enough time during the event. If not, just clip on to the base or collector, do whatever you have to do to make it go goofy, and watch what happens.

Try putting a .01 uF cap from the base of the final to ground. Try it on the driver (the next one back) too. If you have RF oscillations, that should kill them without hurting the audio freqs.

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2825] Re: Antenna info
Message-ID: <Pine.SOL.3.94.961025063828.25121A-100000@utkux4.utcc.utk.edu>

On Thu, 24 Oct 1996, Peter Beedlow wrote:

> If you live on a small city lot, want to put an antenna in the attic or
> looking for a non-vertical field antenna, check out the 'WEETENNA' article
> by George Murphy, VE3erp in the November issue of CQ.
> Peter Beedlow, NN9K
> EN41TL (IL)
> nn9k@worldnet.att.net

This is the same George Murphy ("Murph") who produces HAMCALC (version 23 is in the final stages of preparation with a correction to an antenna field program and a new program that gives you the 2:1 SWR bandwidth of dipoles (calibrated to NEC-2) at the feedpoint Z (not 50 ohms)--you can see the effect of wire diameters from an improbably #34 AWG to over 2"--plus other new and improved programs. The CQ article will undoubtedly contain his address.

By the way, Murph is always on the lookout for a couple of things: a. new programs in GW basic (he will customize them for the standard HAMCALC look

and printout system); b. corrections to and improvements upon existing programs. I'd guess the number of programs is approaching 150; he just found a way to compact matters so that he can get them all on 1 3.5 1.44 MB disk--but at the present rate of growth, a 2-disk set is not too far in the future.

For a 5 buck donation (most to the Canadian National Institute for the Blind for their ham program, the rest to cover postage and disk costs), he'll send you the latest version and put you on his mailing list for future versions (2-3 upgrades/year).

Jim posts the latest version of HAMCALC in the QRP-L archives as soon as he receives it, so you can download a zipped version (which includes the GW Basic machine).

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [2883] Re: Beacons
Message-ID: <19961024.151627.11639.0.WB8YGG@juno.com>

Bob, I had the exact notion about beacons!

I hated them! They served no purpose at all as far as I was concerned. Until Paul, aa4xx started doing beacons with power levels that I thought would not be able to be copied!

Well I was wrong, I heard Paul's beacon, and I am very much interested now.

To the point of gee maybe I should do one. So I tried last weekend for the first time to see if I could get on the air with one, and how far people could hear it.

It was an absolute blast, hearing the reports from people. I could not believe that my pewney 100mw signal could be heard as far as it did, plus it gave me an opportunity to show to various people that asked me if the Atomic Keyer could be used for a beacon,

that indeed it could.

Truely , before you knock it , try it. I changed my mind about it!.

Also, I am trying very hard to get acquainted with this fox thing because I sometimes judge before trying myself. I have the list, and will start listening when time allows.

73 Brad WB8YGG

On Fri, 25 Oct 1996 15:00:09 -0400 (EDT) Bob Kellogg <ae4ic@nr.infi.net> writes:

>Excuse me for asking, but what is so darn much fun about a beacon?
>Isn't
>that sort of like QRMing a frequency?? Am I missing something here??
>
>CUL,
>
>
>Bob Kellogg, AE4IC
>Prolably, but not nececelery. - Benny Hill
>
>
>

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [2861] Re: capacitor value ratings
Message-ID: <3270F22A.80E@ix.netcom.com>

John Dorson K2JHU Real Estate Consultant wrote:

>
> anyone want to know the story on capacitor value marking should look at
> paul harden's 'data book for homebrewers and qrp. the best explanation
> i've seem to date.
>
> as an example, a capacitor marked 22 4 J =220000pf or .22uf @ 5% tolerance
> 103 = .01uf
> 203 = .02uf

>
> and if you don't have a copy i suggest you get one asap. it is full of great
> information for anyone who is building...
>
> John Dorson Real Estate Consultant in Brevard County Florida
> E-Mail To:
jdorson@bbs.mpcs.com-----

Gang,

For those of you who have the Oak Hills Research WM-1 Wattmeter, check out
the next-to-last page of the construction manual. There is a pretty good
chart of resistors and capacitors and the codes used with them.

72/73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Brian Kassel <bkassel@enet.net>
Subject: [2859] RE: EDN IC 1W TX Article
Message-ID: <32715966.3E22@enet.net>

Folks:

I have sent out copies of the above article to all who
have requested it. If you are one of these folks and
don't receive it in a reasonable amount of time, let
me know and I will re-send.

I have no opinion on the circuit, just the mailman for
those who want to investigate it.

--

* Brian D. Kassel W5VBO - QRP NERD 10 - ScQRPion #17 *
* QRP-L #404 - ARCI #3623 *

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "marcus (m.c.) leatham" <leatham@nortel.ca>
Subject: [2818] RE: Female hams
Message-ID: <"6053 Thu Oct 24 12:48:25 1996"@bnr.ca>

Die, subject!
Die, die, die!

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Ed Tanton N4XY <n4xy@avana.net>
Subject: [2854] Re: Female hams
Message-ID: <3270DC3D.6132@avana.net>

Touchy aren't we. Sounds like a recent divorce somewhere to me! Must have gotten custody of all the QRP rigs AND the key(s). Sorry about that.

--

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933
Voice/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779
NCDXF SEDXC
Life Member: ARRL AMSAT IDRA INDEXA QCWA URL:
Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Kevin Muenzler <wb5rue@amsat.org>
Subject: [2875] RE: Female hams
Message-ID: <01IB2AYJKA4GBHDIU3@ARWEN.UTHSCSA.EDU>

No, I think he was just trying to be funny and ended up being stupid.

Kevin, WB5RUE

On Friday, October 25, 1996 8:27 PM, Laura[SMTP:sputnik@imt.net] wrote:
>The only short-sighted, negative response to the discussion. This should
>answer those of us who wondered if it really exists at all.
>73 de KJ7UN
>Laura
>
>sputnik@imt.net
>QRP-L # 790

>
>-----
>> From: Ed Tanton N4XY <n4xy@avana.net>
>> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
>> Subject: Re: Female hams
>> Date: Friday, October 25, 1996 9:26
>>
>> Touchy aren't we. Sounds like a recent divorce somewhere to me! Must
>> have gotten custody of all the QRP rigs AND the key(s). Sorry about
>> that.
>> --
>> 72/73
>>
>> Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933
>> Voice/MBX/FAX
>> 189 Pioneer Trail, Marietta, GA 30068-3466
>>
>> QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779
>> NCDXF SEDXC
>> Life Member: ARRL AMSAT IDRA INDEXA QCWA URL:
>> Coming Soon
>>
>> "Think you can, think you can't: either way you're right!" Henry Ford
>>
>>
>
>

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2849] RE: Female voice and SSB success
Message-ID: <Pine.SUN.3.94.961025114712.15009A-100000@access5.digex.net>

No, I think you're all wet. It is NOT easier to hear a femal
higher-pitched voice on SSB. The reason you hear them "better"
is because there are so few of them. If you were inundated with
YL voices & one lona male voice, he'd be easy to hear, relatively
speaking, than trying to pick out just one of the YL's.

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Ed Tanton N4XY <n4xy@avana.net>
Subject: [2881] Re: Fw: Female hams
Message-ID: <32711C06.3D7B@avana.net>

Well EXCUSE ME!!! Laura. It was meant to be a jibe at the comment about "killing the subject". While I am certain the author MEANT the thread, the SUBJECT of the thread was WOMEN-hence my comment. The largest problem in this often divided world today is the total lack of sense of humor-especially by various groups of people with chips on their shoulders about their particular sore subject.

If you would like to discuss the relative merits of the jest in private, please feel free to email me at will.

Otherwise my only advice/comment: Lighten up!!!!!!!!!!!!!!!!!!!!

I do apologize to the group for wasting their time with BOTH comments.

--

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933
Voice/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779
NCDXF SEDXC
Life Member: ARRL AMSAT IDRA INDEXA QCWA URL:
Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Robert J. Gobrick" <rgobrick@nflld.com>
Subject: [2822] Re: KH6CP/1 Test Results
Message-ID: <2.2.32.19961025073152.00adbc94@nflld.com>

Hi Zack,

You had a good steady signal throughout the QRP ARCI QSO party.

Was wondering what xmtr and antenna set-ups you were running this time since you were really strong at times on 20 meters.

Congrats on all the new QRP ARCI members you picked up - geeez 800+.

Cheers 73/72 Bob V01DRB/WA6ERB

At 22:16 10/23/96 -0400, you wrote:

>
>+48 ARCI members (now 800+) 737,583 claimed score A-4 24hrs
>
>QRP DX: N4BP/VP9 YS1ZRB G4AP0 ON4US FB1MUU(10W)
> Y05CL(8W) KP3S EA8/DK8SX TA2BD
>
> --Zack KH6CP/1 zlau@arrl.org
>
>

```
-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com |
| Compuserve: 70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2821] Re: N4BP/VP9 QRP ARCI Fall QSO Party
Message-ID: <2.2.32.19961025073150.00ad9b2c@nfld.com>

Hi Bob,

What a great trip and your contest report is a tribute to your skills. I can tell how 20 meters was doing by using your signal as a "beacon" - you were always there working qrpers with a super signal and good contest skills. For newbies to contesting, take some time out and listen to some top stations like N4BP and KH6CP/1 (east coasters) to see (hear) how they do it.

I also noted that you must have PO'd the QRP gods by running 100 watts - don't mess with "mother qrp" - hi. Curious what you attribute the puff of smoke to in your TS-430S - line voltage, rf feedback problems, rain, too many rum and cokes???

Cheers 73/72 Bob V01DRB/WA6ERB

PS: thanks for dxpedition antenna tips.

At 04:03 10/25/96 -0400, you wrote:

> 1996 QRP ARCI CONTEST

>
>I arrived in Bermuda on Wednesday afternoon, October 16. Before the Radio
>Society of Bermuda's banquet at 7PM, I managed to get the station set up
>at my Palmetto Bay Hotel cottage and made three QSO's on 20 meters. The
>first was California and the second England; these were replies to my
>CQ's and seemed very encouraging in that conditions might be decent for my
>visit.

>Bob Patten, N4BP

>
>
>
>
>

```
-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com |
| Compuserve: 70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [2890] Re: Need help with my first antenna
Message-ID: <M1117734.003.uqmg2.1.961025220351Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Neil:

An inverted vee is just a dipole that sags at the ends instead of the middle.:^)

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Dale LeDoux <dledoux@laci.net>
Subject: [2895] Re: Need help with my first antenna
Message-ID: <1.5.4.16.19961025172852.243f2362@laci.net>

At 14:30 10/25/96 -0500, you wrote:

>Neil:

>

>An inverted vee is just a dipole that sags at the ends instead of the

middle.:^)

>

>72, Bob N6WG

>

Technically speaking, it's not an inverted vee unless the included angle of the legs is 90 degrees. If they just sort of droop a bit, it's drooping dipole... I could be wrong, but I think I remember reading that in an ARRL pub someplace...

Dale LeDoux

Bath Electrical Systems

Power Specialists -- 480 V to 230 KV

KD5QI -- QRP-L #602

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: Joe Gervais <vole@primenet.com>

Subject: [2879] Re: New ARRL Section for SS?

Message-ID: <199610252037.NAA25863@primenet.com>

Allen (K9DZE) wrote:

>

> ObQRP - Can someone tell me what section was recently added by ARRL? I plan
> to use N6TR ver. 4.05 during the SS. It was released back in '93 and I know
> the League has added a section since then.

North New York (NNY) was added to WNY and ENY. Unless my in-house neural net is suffering from excessive oscillations again.... :-)

On a related note, how many of us QRPers are going to try the Phone Sweepstakes later on? I generally don't like voice modes much, but lately I've been thinking it'd be fun to try. Just to see what I can do with it during a big contest anyway.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: "Michael A. Gipe" <mgipe@reliablemeters.com>

Subject: [2863] Re: New Product Announcement: the TiCK
Message-ID: <199610251755.MAA18187@multi2.pic.net>

Wow, is this for real or what?

You post details of the things you're working on (the Nit-PIC-Key) on the list, and two weeks later, someone else announces a copy for sale! Same features, same new concepts, right down to the buggy name.

Mike K1MG

> From: Gary M. Diana Sr. <gmdsr@shell10.vivanet.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: New Product Announcement: the TiCK
> Date: Friday, October 25, 1996 10:23 AM
>
> *** This announcement is exclusive to the QRP-L Internet List! ***
>
>
> Embedded Research announces it's newest product:
>
> The Tiny CMOS Keyer (TiCK-1)
> -----
>
> The TiCK is based on one of the newest chips from Microchip:
> the PIC 12C508. This 8 pin, RISC-based microcontroller has the
> same footprint as an NE602, in its DIP package.
>
> We are setting the price of the TiCK chip at \$5 ppd (within CONUS).
> For this price, you get a mode B iambic keyer with speed adjust,
> tune, and paddle selection features.
>
> etc. etc. etc...

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: rright@primenet.com (Roger Hightower)
Subject: [2880] Re: Pot Shots Off List PSE!
Message-ID: <199610252038.NAA06079@primenet.com>

At 03:10 PM 10/25/96 -0500, Allen Jones wrote:

(snip)

>ObQRP - Can someone tell me what section was recently added by ARRL? I plan
>to use N6TR ver. 4.05 during the SS. It was released back in '93 and I know
>the League has added a section since then.

>
>Thanks . . .
>
>72/3 de Allen, K9DZE
>ajones@adsnet.com
>
>
>
I believe it was Northern New York (NNY).

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Norm.Lee@flinders.edu.au (Norman J. Lee)
Subject: [2819] Re: QRP-L digest 524
Message-ID: <v01540b01ae96109d116f@[129.96.234.104]>

Hi!,

Anyone built a folded dipole using 300 ohm ribbon for 6 meters, inside plastic pipe? If so, what are the dimensions?? I guess I could work it out but

- a) I'm dyscalculic (like dyslexia only with figures instead of letters)
- b) Bone idle

I'd be pleased to hear from you.

Norm VK5GI
South Australia

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2827] Re: QRP-L digest 524
Message-ID: <Pine.SOL.3.94.961025072735.27623B-100000@utkux4.utcc.utk.edu>

On Fri, 25 Oct 1996, Norman J. Lee wrote:

> Anyone built a folded dipole using 300 ohm ribbon for 6 meters, inside
> plastic pipe? If so, what are the dimensions?? I guess I could work it

Norm,

A 6-meter folded dipole of pure wire models out at 9.2' long for 50.5 MHz. Expect to trim about 1.5% to 2% for the use of twinlead and perhaps another 2% or so for putting it in a plastic pipe. Feedpoint Z of the pure wire model was 285 ohms.

Hope this helps.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Stew Whitehouse <76443.501@CompuServe.COM>
Subject: [2851] Re: RF amp Questions
Message-ID: <961025155756_76443.501_GHN47-2@CompuServe.COM>

Hi folks,
I was having the same thoughts as Bob concerning, this thread.
(great minds and all that stuff) :-)
Perhaps there is a way to wrap it all up and place it in the achives,
under a single subject, where it will be available to all. (once the
thread has run its course of course) :-)

Just a thought.
72/3 Stew ke4yh
Dunedin, Florida
spring training home of the Toronto Blue Jays.

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2886] Re: SUMMARY: Soldering Stations/Pencils
Message-ID: <Pine.SOL.3.94.961025174021.18052E-100000@utkux4.utcc.utk.edu>

Interesting--about soldering irons, that is. Have a variable temp Weller, a very old 25 w Weller and a larger RS, all working fine lo these many years. Use the largest for making antenna connections with #12 and #14 wire, and the smaller one for board and similar work. But in my 40 years+ of amateur radio, have never worn out an iron. Clean, renew and change

points, place carefully in a stand (never in midair over a hard floor), use correct solders, never leave on over night, never try to cook steaks with them, but have gone through pounds of solder over the years. I have always assumed that even the cheapest will last forever, and hence am surprised to hear that some have gone west. Have to suspect varying forms of abuse, misuse, and excuse.

Added hint: when you buy an iron, buy 5 or 6 extra tips--just in case your model goes out of production along with its tips.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: jgann@mindspring.com (Alvin G. Gann)
Subject: [2901] Re: SUMMARY: Soldering Stations/Pencils
Message-ID: <199610260204.WAA14818@itchy.mindspring.com>

.....

I heartily agree with LB, with proper care a good soldering iron should last a long time. Good maintenance and proper use will be greatly rewarded.

>Added hint: when you buy an iron, buy 5 or 6 extra tips--just in case
>your model goes out of production along with its tips.

.....

This hint is very important. I have two favorite irons, one the last tip known to science has burned out and so it is useless. The other is on the last tip and I'm keeping my fingers crossed. When that tip fails, that iron too is history.

Buy a life-time supply while they still make replacement tips!

Thanks LB.

72 --Jerry W1UI

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [2908] Re: SUMMARY: Soldering Stations/Pencils
Message-ID: <Pine.SUN.3.90.961025210436.3261B-1000000@vortex.sage.dri.edu>

On Fri, 25 Oct 1996, L. B. Cebik wrote:

> Interesting--about soldering irons, that is. Have a variable temp Weller,
> a very old 25 w Weller and a larger RS, all working fine lo these many
> years.

Hmmmmmm, that made me think about my soldering gun by Weller. I got that
when I was in high school back in 1952 and I still use it for the
large jobs! One small crack on the case where I dropped it once.

> Added hint: when you buy an iron, buy 5 or 6 extra tips--just in case
> your model goes out of production along with its tips.

Good advice!
cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Lau, Zack, KH6CP" <zlau@arrl.org>
Subject: [2842] Re: Sweepstakes Hints
Message-ID: <m0vGn44-000fG9C@mgate.arrl.org>

So far, there is nothing in the rules from tuning two
receivers simultaneously. This is an excellent way
to hunt for multipliers while reducing the worry that
you are on the wrong band. I've managed over
80k in the CW SS using this technique from a 2nd
floor apartment with simple wire antennas. Its better
than the conventional two radio technique of CQing
with one radio if your signal isn't strong enough to run
stations.

OTOH, if you want to win, it doesn't hurt to borrow
a big contest station for the weekend--maybe from
some DX contest type whose spouse won't let them
operate two weekends in a row.

Zack KH6CP/1 zlau@arrl.org

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: AE0Q / V31RY <v31ry@ix.netcom.com>
Subject: [2824] Re: Tree Fishin'
Message-ID: <2.2.16.19961025044608.110fba7c@popd.ix.netcom.com>

>>Hi Chris, I use the same setup and works pretty good. Just wondering if
>you put the 202 ahead of the slingshot or behind it? I have my 202 ahead
>of the slingshot. Thanks, Tom
>

Hi from Glenn in Denver.. I use a Zebco 404 (15 lb line), and mount it on
a broken rod that has a hole drilled vertically through the handle.. I got
a longer bolt that holds the WristRocket together (hardware store), put a
wingnut on it, and the rod/reel goes on the bottom of the slingshot.. The
reel is ahead of the WristRocket, and on top of the rod.. I found I have to
pay out about 40 feet of line on the ground to keep it from snapping when I
launch the sinker.. it actually goes TOO far, usually over more than just
the desired tree!

I used it in a gale force wind to launch a 66ft vertical last weekend in
Wyoming, used in the ARCI contest..

73 -- Glenn

Another month ends... All targets met, all systems working, all customers
satisfied, all staff eager and enthusiastic. All pigs fed and ready to fly.

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [2831] Re: Tree Fishin'
Message-ID: <Pine.3.89.9610250855.A5324-01000000@imc220>

On Thu, 24 Oct 1996, Thomas J. Whalen wrote:

> > I've seen the slingshot and fishing reel method written about or
> > mentioned several times and always thought, "Yeah, nice idea". Last

>Hi Chris, I use the same setup and works pretty good. Just wondering if
> you put the 202 ahead of the slingshot or behind it? I have my 202 ahead
> of the slingshot. Thanks, Tom

Mine is mounted behind the slingshot on one of the "arms" that comes back
for the wrist support. Right now I just have a piece of foam (to prevent
slippage) and a few wire ties. A better attachment method is coming
after a trip to the hardware store. Just remember to pull the line out
in front of the slingshot and then through the "Y" before you fire it.
Gets ugly otherwise. And no, you can't ask how I know that :)

-- Chris Cartwright N3XRV Gaithersburg, MD | dsc3cjc@imc220.med.navy.mil --
-- EMPS QS0s=0 STATES(w/c)=0/0 DX=0 FOX=0 | QRP-L #655 QRP-ARCI #9271 --

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [2833] Re: Tree Fishin'
Message-ID: <Pine.3.89.9610250815.A5324-01000000@imc220>

On Fri, 25 Oct 1996, bruce muscolino wrote:

> At 01:34 PM 10/24/96 -0400, you wrote:

> >I've seen the slingshot and fishing reel method written about or
> >mentioned several times
> >
> laugh my wire up to the top of a couple of very tall trees. I have a cheap
> old fishing rod with spinner reel bought especially to try and launch the
> stealth wires more effectively, but I never used it. Also, what size
> sinkers are you using? This looks like a Sunday afternoon project here (at

Well I seem to be able to get about 75' out of a 1/2 oz and a little more
out of a one oz, the 1/2 oz were cheaper so I've been using them. I'm
using the closed face Zebco 202 style reel. I have a spinning reel I
could have used, but with the bailer, and line flying that close to
hands/eyes/ears/nose I just didn't like the idea. Especially since the
directions say that it fires things at up to 200 MPH! Dont' want to end
up with "the mother of all rope burns" :)

-- Chris Cartwright N3XRV Gaithersburg, MD | dsc3cjc@imc220.med.navy.mil --
-- EMPS QS0s=0 STATES(w/c)=0/0 DX=0 FOX=0 | QRP-L #655 QRP-ARCI #9271 --

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: Re: Tree Fishin'

On Thu, 24 Oct 1996, Thomas J. Whalen wrote:

> > I've seen the slingshot and fishing reel method written about or
> > mentioned several times and always thought, "Yeah, nice idea". Last

>Hi Chris, I use the same setup and works pretty good. Just wondering if
> you put the 202 ahead of the slingshot or behind it? I have my 202 ahead
> of the slingshot. Thanks, Tom

Mine is mounted behind the slingshot on one of the "arms" that comes back for the wrist support. Right now I just have a piece of foam (to prevent slippage) and a few wire ties. A better attachment method is coming after a trip to the hardware store. Just remember to pull the line out in front of the slingshot and then through the "Y" before you fire it. Gets ugly otherwise. And no, you can't ask how I know that :)

-- Chris Cartwright N3XRV Gaithersburg, MD | dsc3cjc@imc220.med.navy.mil --
-- EMPS QS0s=0 STATES(w/c)=0/0 DX=0 FOX=0 | QRP-L #655 QRP-ARCI #9271 --

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [2867] Re: Tree Fishin'
Message-ID: <199610251900.PAA13606@mh004.infi.net>

Hi Chris,
At 01:34 PM 10/24/96 -0400, you wrote:

>P.S. Anyone know what the terminal velocity for the average acorn is?
> Umm... no reason, just askin'

The average acorn falling from the top of a 70' tree will be traveling at the rate of 43.6 miles per hour when it hits the top of the head of a six foot man.

BTW, you are right about the sling shot. I, too have tried many methods:

- (1) tying a weight on the end of a string and swinging it in a circle to build up momentum, then release. (works well as far as height is concerned, but aiming is difficult. - one antenna is in the wrong tree)
- (2) Casting with a fishing pole. This worked when I did it. I stood on the

roof and cast over a big oak tree. Ellen complained because the neighbors asked why I was fishing off of the roof (and she didn't know either).

(3) Bow and arrow with a fishing line attached. This works, too, but the archer was my son, the Dentist, and he fretted about his dignity and reputation if someone saw him shooting arrows over trees in a residential area. Also, he was afraid of piercing a roof if the arrow went too far or was deflected by a limb.

I now have an "Antenna bag", which is a small athletic bag with my fishing line, nylon string, extra rope, sling shot, lead weights (1.5 oz), W3EDP antenna, 1/2 size G5RV, some nylon ties, extra wire, etc., etc. This one bag has everything I need to set up an antenna wherever.

CUL,

Bob Kellogg, AE4IC

Prolably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: Patrick Taber <ptaber@logiccraft.com>

Subject: [2870] Re: Tree Fishin'

Message-ID: <1.5.4.32.19961025191828.00975670@freebird>

>>P.S. Anyone know what the terminal velocity for the average acorn is?

>> Umm... no reason, just askin'

>

>The average acorn falling from the top of a 70' tree will be traveling at
>the rate of 43.6 miles per hour when it hits the top of the head of a six
>foot man.

>

The impact energy is 17.52 "Ouchies" (an engineering unit of pain weighted by embarassment, e.g. banging your thumb with a hammer is 5 Ouchies, banging your thumb with a hammer after telling your son you'll show him how to drive a nail The Right Way is well over 50 Ouchies....)

>(3) Bow and arrow with a fishing line attached. This works, too, but the
>archer was my son, the Dentist, and he fretted about his dignity and
>reputation if someone saw him shooting arrows over trees in a residential
>area. Also, he was afraid of piercing a roof if the arrow went too far or
>was deflected by a limb.

>

For the William Tell launch there are two important accessories: the fishing arrow and the birding tip. The fishing arrow is designed to trail a line from a big open reel mounted on the bow (the arrow actually shoots out from

the center of the reel.) The birding tip is a large, blunt weight that screws in where the arrow point normally goes and keeps the arrow from sticking into the tree (or, one assumes the bird) while giving enough weight to make the line come down.

The setup isn't as safe as a slingshot but, boy, is it accurate.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: [2900] Re: Tree Fishin'
Message-ID: <199610260115.UAA26038@Spacestar.Net>

Great discussion about getting that fishing line over the tree, but what do you do after that? Especially for a permanent (well long time) installation. I'd like to know about the type of line used? Where and how you tie it off? What you do about the trees swaying? Stuff like that. After all, nobody wants to have to put the thing back up once a week!

Claton Cadmus |73 de KA0GKC
Application Technologies Inc. |ARRL, QRP-ARCI, NorCal
Ph. (612)926-8886 |ARCC, MNQRP&HB Society
Fax (612)926-8545 |ka0gkc@ka0gkc.ampr.org
E-mail cla@spacestar.net |ka0gkc@wb0gdb.#stp.mn.us

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [2902] Re: Tree Fishin'
Message-ID: <Pine.SUN.3.91.961025200315.18084A-1000000@kitsune.swcp.com>

On Fri, 25 Oct 1996, Claton Cadmus wrote:

> Great discussion about getting that fishing line over the tree, but what
> do you do after that? Especially for a permanent (well long time)
> installation. I'd like to know about the type of line used? Where and
> how you tie it off? What you do about the trees swaying? Stuff like
> that. After all, nobody wants to have to put the thing back up once a
> week!
>

> Claton Cadmus |73 de KA0GKC
> Application Technologies Inc. |ARRL, QRP-ARCI, NorCal
> Ph. (612)926-8886 |ARCC, MNQRP&HB Society
> Fax (612)926-8545 |ka0gkc@ka0gkc.ampr.org
> E-mail cla@spacestar.net |ka0gkc@wb0gdb.#stp.mn.us
>
>

Hi Clayton, I only put antennas in trees when Im out camping, so they are not permanent. Going to try a Sterba Curtain the next outing! Also want to try a Lazy H. 73 Tom WB5QYT

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Mark Korchinski <MKORCHINSKI@PMRA.HWC.CA>
Subject: [2837] Re: tree fishing....
Message-ID: <s2707f8f.066@PMRA.HWC.CA>

Re: tree fishing....

True story about John VE5JQ (Millwatt DXCC #17). I preface this by noting that he is a Psychiatrist . About 10 years ago he was stringing up some antennas at a new house.

Envision him standing on the roof and casting a line across some back-yard trees when his next door neighbour exits his house to take out the garbage and spots him. I still can't help but laugh at the sight. A classic ham moment.

73,
Mark VA3ZU

Received: from extdns.hc-sc.gc.ca (extdns.hc-sc.gc.ca [198.103.172.99]) by intdns.hwc.ca (8.7.4/8.7.3) with ESMTP id IAA29795 for <MKORCHINSKI@PMRA.HWC.CA>; Fri, 25 Oct 1996 08:18:23 -0400 (EDT)
Received: from fidoii.CC.Lehigh.EDU (fidoii.CC.Lehigh.EDU [128.180.1.4]) by extdns.hc-sc.gc.ca (8.7.4/8.7.3) with ESMTP id IAA07331 for <MKORCHINSKI@PMRA.HWC.CA>; Fri, 25 Oct 1996 08:18:22 -0400 (EDT)
Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.lehigh.edu with SMTP id <34830-19362>; Fri, 25 Oct 1996 08:15:42 -0400
Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoii.cc.lehigh.edu with ESMTP id <34830-18080>; Fri, 25 Oct 1996 08:15:12 -0400
Received: from imc220.med.navy.mil (imc200.med.navy.mil [131.158.50.200]) by

nss2.CC.Lehigh.EDU (8.8.2/8.8.2) with SMTP id IAA97480 for <qrp-l@Lehigh.EDU>;
Fri, 25 Oct 1996 08:15:08 -0400
Received: by imc220.med.navy.mil (5.0/SMI-SVR4)
id AA06729; Fri, 25 Oct 1996 08:08:04 +0500
Message-Id: <Pine.3.89.9610250855.A5324-0100000@imc220>
Reply-To: dsc3cjc@imc220.med.navy.mil
Sender: owner-qrp-l@Lehigh.EDU
Precedence: bulk
In-Reply-To: <Pine.SUN.3.91.961024153849.2132A-1000000@kitsune.swcp.com>
X-To: "Thomas J. Whalen" <whalen@swcp.com>
X-Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
X-Listprocessor-Version: 8.0 -- ListProcessor(tm) by CREN
From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Richard Mulvey <mulveyr@frontiernet.net>
Subject: [2845] Re: tree fishing....
Message-ID: <199610251433.KAA20914@c11.frontiernet.net>

Of course, this reminds me of when I put my antennas up last year, after moving into our new house. There I am, in the front yard, with my handy-dandy slingshot/spinning reel combo. I take careful aim at the oak tree in our front yard. I release the sling, and away it goes!

Up!
Up!
Up and Over the house!

CRASH! (Sound of breaking glass)

The 1 oz. sinker made a perfect, 10 point landing, right into the middle of our new, glass-topped deck table.

Needless to say, I had to buy a new table-top before I could get any more radio toys. :-)

- Rich

>
> Re: tree fishing....
>
> True story about John VE5JQ (Millwatt DXCC #17). I preface this by noting that he is a
> Psychiatrist . About 10 years ago he was stringing up some antennas at a new house.
>
> Envision him standing on the roof and casting a line across some back-yard trees when his

> next door neighbour exits his house to take out the garbage and spots him. I
still can't help but
> laugh at the sight. A classic ham moment.

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [2897] Re: Tx Fox Filter, Antennas and MXM Emergenceiver
Message-ID: <Roam.3.0.1.846286978.20142.myers@bigboy>

> Hey gang,
>
> Work and other commitments sure got in the way of hammin' the past two
> weeks, but what little time I had has been great fun.
>
> First, those California boys sure designed one heck of a Tx Fox Filter. I
> live across town in Austin from Tim (maybe 10 miles) and I couldn't even
> hear him on ground wave. Nothing but S9+ SSB from down south. Sure
> thought I could snag a fox from close in, but gonna have to wait another
> week. Putting that filter on Tim's rig and keeping ALL the Texan's away
> from the Fox was diabolical, to say the least. Didn't see a single Tx call
> in Tim's report. AArgh!

>From what I can gather, the Tx Fox Filter is just a polarity crossing
device. You can foil the filter by loosening your feedline and rotating
it 90 degrees to switch the polarity.

;-)

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [2862] Re: USA Geographical Maps Only/GPS/QRP/FYBO
Message-ID: <199610251743.MAA18034@multi2.pic.net>

Also try the Buckmaster call sign lookup page. (www.buck.com will get you
started) They will draw a map of whatever resolution you want based on a
call sign.

I am getting a little worried, though. I looked myself up on both data
bases. They had slight differences of opinion about my location. I was
mystified until I calculated it out. Your suggested web site located me in
the middle of my kitchen. Buckmaster put me in the master bedroom.

Honest! (The shack is almost exactly mid way between them.)

Mike K1MG

Saratoga, CA (approximately)

> For those of You, who like to see a Map (USA only) of where You are (I
> have been wondering where I was for years.) & the Latitude. & Longitude,
> of that address, try the following URL;

>

>

> <http://www.geocode.com/eagle.html-ssi>

>

>

> Enter Your' address & select both (map & address data). Stay away from
> Post Office Boxes, street addresses work the best. My thanks to N5ZGT,
> Brian for pointing this site out to me.

>

>

>

>

72...Jay, WA5WHN, Grid

> Square: DM65qd

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996

From: Dale LeDoux <dledoux@laci.net>

Subject: [2894] Re: Use of a soldering iron on DC power?

Message-ID: <1.5.4.16.19961025172848.18cfee8e@laci.net>

At 16:41 10/25/96 +1030, you wrote:

>This came up a few weeks ago...

>

>I have (somewhere) a 12 VDC iron I picked up at a fest for \$10 or so.

>

>We were doing some rooftop antenna work and wondered, hmmm...could we run
>a 25 watt 120 VAC iron on a 120 VDC? We had enough batteries (gel cells)
>and I know that 120 VAC is actually 120 Vrms, so the same power could be
>delivered by 120 VDC. The only question was whether the reactance of
>the heating element material at 60 Hz was enough to act as a current
>limiter - that would suddenly not be present if DC were used.

>

>We went and got a 100' extension cord. Any guesses?

>

>* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *

>*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***

>** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **

>* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

>

fear not. Your standard iron is as close to pure resistance at 60Hz as you need to get and will work wonderfully at 120VDC. If you have doubts, though, check the resistance between the two float prongs of the plug with your ohmmeter and then do the math. You'll be checking resistance with DC voltage from your ohmmeter and although there will be some change as the resistance element heats up, it should not be significant.

Dale LeDoux
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [2830] Re: Wattmeter question
Message-ID: <1.5.4.32.19961025120412.009484b4@freebird>

>I have an MFJ wattmeter that has 0-300 and 0-30 watt ranges. On the
>high range (or on the low range with higher power) it seems to work
>correctly. But on the low range with 5w output, I always get 0
>reflected power.

Have you ruled out system losses (coax, etc) from eating up your return power? It seems to me that with a long run of cable and low power a negligible reflection is correct. I use that sometimes to make a "match" for my xcvr if I'm on a freq it doesn't want to play on -- crank the wick down until SWR drops below 2:1 and the final starts to put out. Sure, I'm not getting a lot out, but I get *something* out! At least, I can work folks.

>>>==>PStJTT

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: 25-Oct-1996 0811 <randolph@asic.ENET.dec.com>
Subject: [2835] re: Wattmeter question
Message-ID: <9610251223.AA17248@us4rmc.pko.dec.com>

> I have an MFJ wattmeter that has 0-300 and 0-30 watt ranges. On the
> high range (or on the low range with higher power) it seems to work
> correctly. But on the low range with 5w output, I always get 0
> reflected power. I presume this is because the diodes are nonlinear (or

Yup, most simple wattmeters need at least 1/2 watt to get the meter to move at all. If you have less than 1/2 watt reflected power, no reading. This is common with QRP transmitters, even with pretty lousy SWRs.

To get accurate readings below that, the wattmeter needs to compensate somehow for the diode insensitivity. The Oak Hills and the W7EL wattmeters both do it. I built a W7EL. It works great, and measures down to 10 mW!

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [2841] Re: Wattmeter question
Message-ID: <3270CB50.43C7@rakefet.com>

Patrick Taber wrote:

>
> >I have an MFJ wattmeter that has 0-300 and 0-30 watt ranges. On the
> >high range (or on the low range with higher power) it seems to work
> >correctly. But on the low range with 5w output, I always get 0
> >reflected power.
>
> Have you ruled out system losses (coax, etc) from eating up your return
> power? It seems to me that with a long run of cable and low power a
> negligible reflection is correct. I use that sometimes to make a "match" for
> my xcvr if I'm on a freq it doesn't want to play on -- crank the wick down
> until SWR drops below 2:1 and the final starts to put out. Sure, I'm not
> getting a lot out, but I get *something* out! At least, I can work folks.
>
> >>>=>PStJTT

Both of my rigs are putting out full power (5 watts or 100 watts), and the actual swr is about 1.6 to 1. The loss in the system shouldn't be any greater in db for low power than for high power, or for forward or reflected power. The swr reading should be the same, since it's based on the ratio of the forward and reflected power.

Vic K2VCO

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Vic Rosenthal <rakefet@rakefet.com>

Subject: [2843] Re: Wattmeter question
Message-ID: <3270CCC3.73B0@rakefet.com>

Tom Randolph wrote:

>
> > I have an MFJ wattmeter that has 0-300 and 0-30 watt ranges. On the
> > high range (or on the low range with higher power) it seems to work
> > correctly. But on the low range with 5w output, I always get 0
> > reflected power. I presume this is because the diodes are nonlinear (or
>
> Yup, most simple wattmeters need at least 1/2 watt to get the meter to move at
> all. If you have less than 1/2 watt reflected power, no reading. This is
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>
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> for the diode insensitivity. The Oak Hills and the W7EL wattmeters both do it.
> I built a W7EL. It works great, and measures down to 10 mW!
>

I'm coming to the conclusion that this is what I need to do. The MFJ circuit is very simple; just a toroid and a couple of diodes plus calibration pots. I've noticed these QRP wattmeters are abit more complicated.

Vic K2VCO

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: nskousen@scientech.com (Niel Skousen)
Subject: [2846] Re: Wattmeter question
Message-ID: <v02140b02ae96818afffa@[198.60.91.132]>

>>
>> To get accurate readings below that, the wattmeter needs to compensate
>> somehow
>> for the diode insensitivity. The Oak Hills and the W7EL wattmeters both
>> do it.
>> I built a W7EL. It works great, and measures down to 10 mW!
>>
>
> I'm coming to the conclusion that this is what I need to do. The MFJ
> circuit is very simple; just a toroid and a couple of diodes plus
> calibration pots. I've noticed these QRP wattmeters are abit more
> complicated.

I've been considering rebuilding my MFJ-941 with the W7EL circuit from the HB, anybody done this ?

Also I'm alittle concerned about the impeadance stability within the tuner, based on teh construction practices....., is this a significant problem ? Would it be worth rebuilding the tuner ?... or just the F/R power sensor... ?

TNX for advice..
Niel

Niel Skousen; S.Eng, SCIENTECH.SPG nskousen@scientechn.com
208.525.3742, FAX 529.4721 Idaho Falls ID WA7SSA QRP-L.119
-----DN33wm-----

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [2847] Re: Wattmeter question
Message-ID: <1.5.4.32.19961025144509.00945704@freebird>

At 07:14 AM 10/25/96 -0700, you wrote:

>Patrick Taber wrote:

>> Have you ruled out system losses (coax, etc) from eating up your return
>> power? [...]

>Both of my rigs are putting out full power (5 watts or 100 watts), and
>the actual swr is about 1.6 to 1. The loss in the system shouldn't be
>any greater in db for low power than for high power, or for forward or
>reflected power. The swr reading should be the same, since it's based on
>the ratio of the forward and reflected power.

Theory says yes the ratios are the same. Physical world says that meters and other measuring devices have a built-in uncertainty and that losses in the transmission line etc. can cause the return power to fall under the limits of uncertainty and seem to disappear. They don't, of course, what is happening is that the uncertainty is becomign a larger fraction of the power being measured but it is significant. If your meter is accurate to, say, 5% of full scale and the scale is, say, 30 Watts, then the uncertainty is 1.5 Watts. This is might well be negligable to the return from 100 Watts, but significant to the return from 5 Watts.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [2866] Re: Wattmeter question
Message-ID: <32710B52.C07@rakefet.com>

Patrick Taber wrote:

<snip>

> losses in the
> transmission line etc. can cause the return power to fall under the limits
> of uncertainty and seem to disappear. They don't, of course, what is
> happening is that the uncertainty is becoming a larger fraction of the
> power being measured but it is significant. If your meter is accurate to,
> say, 5% of full scale and the scale is, say, 30 Watts, then the uncertainty
> is 1.5 Watts. This is might well be negligible to the return from 100 Watts,
> but significant to the return from 5 Watts.

I agree.

Vic K2VCO

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [2869] Re: Wattmeter question
Message-ID: <199610251901.MAA06096@dancris.com>

At 11:47 AM 10/25/96 -0700, you wrote:

>Patrick Taber wrote:

>

><snip>

>

>> losses in the
>> transmission line etc. can cause the return power to fall under the limits
>> of uncertainty and seem to disappear. They don't, of course, what is
>> happening is that the uncertainty is becoming a larger fraction of the
>> power being measured but it is significant. If your meter is accurate to,
>> say, 5% of full scale and the scale is, say, 30 Watts, then the uncertainty
>> is 1.5 Watts. This is might well be negligible to the return from 100 Watts,
>> but significant to the return from 5 Watts.

>

>I agree.

>

>Vic K2VCO

>

But if the uncertainty is 5% of full scale, does it not reduce as the scale is reduced? I would think that you would lose 1.5 watts at full scale, and a correspondingly less loss as less than full scale. Not having the equipment to test this, it would be nice to know if the percentage of loss remains fairly constant and is not dependent on the power applied through the circuit. 73,
Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [2871] Re: Wattmeter question
Message-ID: <Roam.3.0.1.846271375.1724.myers@bigboy>

Bob Hightower wrote:

[discussion of wattmeter accuracy at high versus low power deleted]

> But if the uncertainty is 5% of full scale, does it not reduce as the scale
> is reduced? I would think that you would lose 1.5 watts at full scale, and a
> correspondingly less loss as less than full scale. Not having the equipment
> to test this, it would be nice to know if the percentage of loss remains
> fairly constant and is not dependent on the power applied through the
> circuit. 73,

Keep in mind the detectors used in wattmeters aren't always linear with respect to power level. The forward voltage drop of a silicon diode introduces a significant error at low power levels (< 5W) but can be ignored at higher power levels (say 50W).

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: john andrews <jm165723@eee.org>
Subject: [2877] Re: Wattmeter question
Message-ID: <32711E2C.323E@eee.org>

Vic Rosenthal wrote:

>
> Hi Qr-people,
>
> I have an MFJ wattmeter that has 0-300 and 0-30 watt ranges. On the

> high range (or on the low range with higher power) it seems to work
> correctly. But on the low range with 5w output, I always get 0
> reflected power. I presume this is because the diodes are nonlinear (or
> something). Can anyone suggest a fix (perhaps different diodes)? I
> don't need a precision wattmeter, but I do want to be able to check SWR
> at QRP levels.
>
> Vic K2VCO

Hi Gang:

Vic has one of the single meter MFJ's that read at the same time(2
needles). The schematic indicates 1n34's but MFJ has installed HP
hot carrier diodes. They seem to have a lower threshold.

My guess is a blown diode.

Just as a FYI, pg 28 of 73 mag(Nov) has an article on recal. from the
30/300 watts to 6/30. The 6w. scale is already there. SWR is read from
a nomograph on the meter face.

72, John- N5INZ

From owner-qrp-1@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [2840] RE: What the codes on Cap's mean?????
Message-ID: <01BBC251.B8EE8700@muenzlerk.uthscsa.edu>

On Thursday, October 24, 1996 5:04 PM, Bill Myers[SMTP:bmyers@destin.nfds.net]
wrote:

>Help!!!

>

>I been outta the building arena for a while. I'm getting back into it again.

>

>I would like to get a good reference book on capacitors, especially
>something that can decode all the numbers so I know what I got.

>

>I aquired a grab bag of caps and I'm not sure what value they are.

>

>The 104Z's I believe are .1mfd.

>

>I know the .01z/p/u are probably .01mfd.

>

>What about the 5.6c/npo, 100m, 560k (is this one like a resistor?), 473z.

>
>And I got some really funny ones with W125
> L22
> 8525
> Veco
>
>Any help would be appreciated...
>
>72/73
>
>
>--
>Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL
>Snail Mail P. O. Box 178
> Shalimar, FL 32579-0178
>Grid EM60rk
>e-mail <bmyers@destin.nfds.net>
>homepage <http://destin.nfds.net/~bmyers/>
>CHECK OUT THE FISTS INTERNATIONAL CW CLUB HOMEPAGE
><http://n9nvv.qrp.com/~fists>
> ^^^^^ That's N 9 N V V
>

Well, yes they are almost like a resistor. The "k" is a tolerance and the number is broken into components just like a resistor. The first and second numbers are the first and second significant figures in the value and the last one is a decimal multiplier. For instance, 560 is 56×10^0 or 56×1 or 56pf. If it had 561 it would be 56×10^1 or 560pf and so on. Just like resistors. The letter 'k' means 10% tolerance. Some of the letters are temperature coefficients and some of them are tolerances. Look in the ARRL Handbook under component data for more details.

Kevin, WB5RUE

From owner-qrp-l@Lehigh.EDU Fri Oct 25 23:11:27 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [2855] RE: What the codes on Cap's mean?????
Message-ID: <1.5.4.16.19961025115408.09579482@destin.nfds.net>

Thanks to all who responded, it makes much better sense now.

And I don't feel so "not-so-bright"!!!!!!!!!!!!!!

72/73

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL

Snail Mail P. O. Box 178

Shalimar, FL 32579-0178

Grid EM60rk

e-mail <bmyers@destin.nfds.net>

homepage <http://destin.nfds.net/~bmyers/>

CHECK OUT THE FISTS INTERNATIONAL CW CLUB HOMEPAGE

<http://n9nvv.qrp.com/~fists>

^^^^ That's N 9 N V V